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Functions, Spaces, and Expansions: Mathematical Tools in ...

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Functions, Spaces, and Expansions: Mathematical Tools in ...

As a textbook that provides a deep understanding of central issues in mathematical analysis, Functions, Spaces, and Expansions is intended for graduate students, researchers, and practitioners in applied mathematics, physics, and engineering. Readers are expected to have a solid understanding of linear algebra, in  $\mathbb{R}^n$  and in general vector spaces. Familiarity with the basic concepts of calculus and real analysis, including Riemann integrals and infinite series of real or complex numbers, is ...

Functions, Spaces, and Expansions | SpringerLink

12/6/2010. ] This book is a precariously-positioned and choppy introduction to function spaces and orthogonal expansions, aimed at students of applied mathematics and engineering. Its position is precarious because it describes a large number of tools without showing any of them in action. Because of this omission, it reads like the first book ( " Theory " ) of a two-volume set, for which we don ' t have the " Applications " volume.

Functions, Spaces, and Expansions: Mathematical Tools in ...

In mathematics, a function space is a set of functions between two fixed sets. Often, the domain and/or codomain will have additional structure which is inherited by the function space. For example, the set of functions from any set  $X$  into a vector space has a natural vector space structure given by pointwise addition and scalar multiplication. In other scenarios, the function space might inherit a topological or metric structure, hence the name function space.

Function space - Wikipedia

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In mathematics, a Fourier series ( $f(x) = \sum_{n=-\infty}^{\infty} c_n e^{in x}$ ) is a periodic function composed of harmonically related sinusoids, combined by a weighted summation. With appropriate weights, one cycle (or period) of the summation can be made to approximate an arbitrary function in that interval (or the entire function if it too is periodic). As such, the summation is a synthesis of another function.

Fourier series - Wikipedia

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Functions, spaces, and expansions : mathematical tools in ...

Functions are important mathematical objects. Usually they form infinite-dimensional function spaces, as noted already by Riemann [1]:  $C^m$  and elaborated in the  $n$ th century by functional analysis. Taxonomy of spaces . Three taxonomic ranks . While each type of spaces has its own definition, the general idea of "space" evades formalization. Some

Spaces in mathematics - Wikimedia

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